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Common Organizational Level Tester (COLT)
Advanced Stores Management Test – for Today and Tomorrow



Common Organizational Level Tester (COLT)

Features:

- State-of-the-art VXI Bus Instrumentation
- Digital Multimeter
- Digital-to-analog Converter
- Analog-to-digital Converter
- Comparator
- Time Stamp
- Power Switches
- Signal Switching
- Serial-based Communication Protocols
- Programmable DC Loads
- Arbitrary waveform generator

Benefits:

- Standardization
- Low Cost TPS Generation
- Robust Test
- Ruggedized for Flight Line or Back Shop

The Lockheed Martin Common Organizational Level Tester (COLT) is a versatile, state-of-the-art automatic test system designed for flight line and back-shop use. The programmable COLT detects and isolates faults on systems under test by providing power, control, stimulus, measurement, communication, I/O switching and signal loading. The COLT operates as a remote instrument by generating and measuring signals and is powered by either aircraft power or external power sources.

The COLT is a programmable assembly that includes self-diagnostics, custom control software and Test Program Sets. The system software controlling the COLT is a distributed test program. A portion of the test program code resides in the Portable Display Controller Unit (PDCU), and the remaining code resides in the COLT embedded controller. By using the COLT in conjunction with the PDCU, maintenance technicians can display technical order data (TOD), record maintenance actions, collect diagnostic data, initiate BIT, identify probable causes of failure and corrective actions, identify required parts and display test status summaries.

The COLT design is a product of performance-based acquisition. The U.S. Government-approved functional interface of the COLT allows Lockheed Martin designers to use and update the internal design with the latest commercial off-the-shelf components. Originally intended for F/A-22 Stores Management System Initiated Built-in Test (BIT), it has been further augmented to perform B-2A on-aircraft Rotary Launcher Assembly testing.



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